

PATENT

Attorney Docket No.: 399756
Express Mail Label No.: EV 008780214 US

REMARKS

Claims 1 and 16 have been amended and new claims 31 and 32 added to more particularly claim the solvent of Applicant's invention. Claims 1 and 11 have been amended to more particularly claim the halogenated hydrocarbon of Applicants' invention. Support for the amendment to claims 1 and 11 can be found in the specification of the exemplary fluorocarbons and chlorocarbons at least at page 17, line 20. Support for the amendment to claim 1, line 7, can be found in the specification at least at page 8, lines 17-20, and page 9, lines 1-5. An obvious typographical error on the molecular formula of one fluorocarbon has also been corrected in claim 11. Support for the correction can be found in the specification at least at page 21, Example 1. Support for the amendment to claim 16 can be found in the specification at least at page 20, lines 6 and 12. Support for new claims 31 and 32 can be found in claims 1 and 16, and in the specification at least at page 17, lines 17-20. No new matter is introduced by any of the amendments to claims 1, 11 or 16, or by new claims 31 and 32. Claims 1-5, 9-14, 16, 31 and 32 are currently in the application for examination.

It is respectfully requested in accordance with the amendment of claims, that claims 1-5, 9-14, 16, 31 and 32 be found allowable.

Should the Examiner believe that issues remain outstanding, the Examiner is respectfully requested to call Applicants' undersigned attorney in an effort to resolve such issues and advance this application to issue.

Respectfully submitted,

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Marked-up Version of Amended Claims

1. (Once amended) A solvent for extracting oil from an oil bearing material so as to form an extracted oil comprised of greater than 95% by weight triglycerides and other non-polar constituents, with said solvent having a polarity no greater than about 0 and a viscosity ranging between about 0.3 centipoise and about 2.6 centipoise, whereby the triglycerides are miscible in said solvent at a temperature ranging between about 35° C and about 55° C and after extraction of the triglycerides said solvent and the triglycerides form a miscella, and at a temperature ranging between about 15 ° C and about 25 ° C, said miscella will form distinct solvent and oil layers that can be separated, said solvent comprising:

(a) an amount of a low molecular weight hydrocarbon having a viscosity of less than 2.6 centipoise; and,

(b) a fluorocarbon solvent or a chlorocarbon solvent wherein said chlorocarbon is selected from the group consisting of CH₂Cl₂, C₂H₃Cl₃, and C₂HCl₃, with the provisos that (i) when said fluorocarbon is dichlorotrifluoroethane, said hydrocarbon is not n-pentane or isopentane; (ii) when said fluorocarbon is dichloropenta-fluoropropane, said hydrocarbon is not a C₆ aliphatic or C₆ cycloaliphatic hydrocarbon; and (iii) when said fluorocarbon is perfluorohexane, said hydrocarbon is not isohexane.

11. (once amended) The solvent of claim 10 wherein said fluorocarbon solvent is selected from the group consisting of C₅H_{2[5]}F₁₀, C₆HF₁₃, C₇HF₁₅, C₁₀HF₂₁, [C₈H₈F,] C₅F₁₂, C₇F₁₆, C₆F₁₄, C₈F₁₈, C₂Cl₃F₃, CCl₃F, C₃Cl₂F₆, C₄Cl₂F₈, C₄Cl₃F₇, C₆ClF₁₃, C₃HCl₂F₅, and C₂HCl₂F₃[, CH₂Cl₂, C₂H₃Cl₃, and C₂HCl₃].

16. (Once amended) A solvent for extracting oil from an oil bearing material so as to form an extracted oil comprised of greater than 95% by weight non-polar constituents, with said solvent having a polarity no greater than about 0 and a viscosity less than about 2.6 centipoise, whereby the non-polar constituents are miscible in said solvent at a temperature ranging between about 35° C and about 55° C and after extraction of the non-polar constituents, said solvent and the non-polar constituents [form

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a miscella,] separate at a temperature ranging between about 15 °C and about 25 °C,
forming distinct solvent and oil layers that can be separated, said solvent comprising:

- (a) an amount of a low molecular weight hydrocarbon; and,
- (b) a non-polar halogenated solvent;

with the provisos that (i) when said fluorocarbon is dichlorotrifluoroethane, said
hydrocarbon is not n-pentane or isopentane; (ii) when said fluorocarbon is dichloropenta-
fluoropropane, said hydrocarbon is not a C₆ aliphatic or C₆ cycloaliphatic hydrocarbon;
and (iii) when said fluorocarbon is perfluorohexane, said hydrocarbon is not isohexane.

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